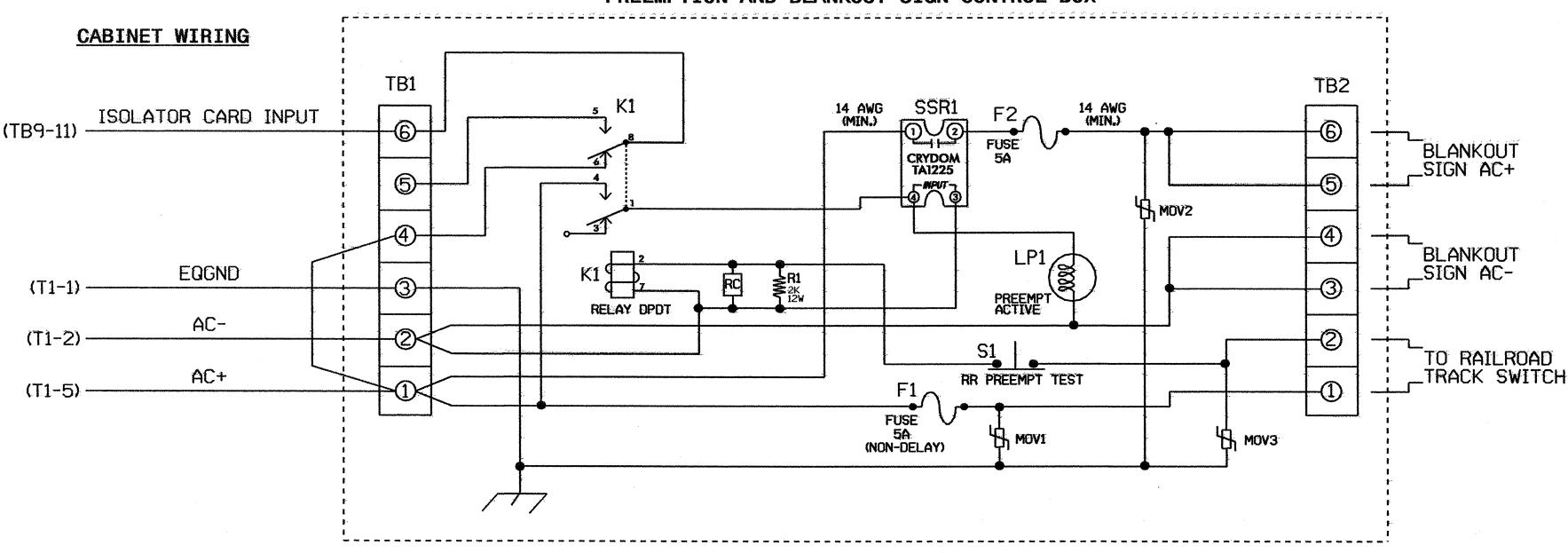
U-4010

RAILROAD PREEMPTION WIRING DETAIL

(wire as shown below)

PREEMPTION AND BLANKOUT SIGN CONTROL BOX



170E CONTROLLER RAILROAD PREEMPTION PROGRAMMING

- 1. PROGRAM 'RR2' INPUT PIN NO. AT E/126+F+6=52 (THIS IS DEFAULT PARAMETER)
- 2. PROGRAM TRACK CLEARANCE PHASES AT E/125+E+2= \$2,5
- 3. PROGRAM 'LIMITED SERVICE' PHASES AT E/125+E+3= Ø3
- 4. PROGRAM RR PREEMPT DELAY TIME AT F/1+E+A= 0 (SEC.)
- 5. PROGRAM TRACK CLEARANCE TIME AT F/1+E+B= 13 (SEC.)
- 6. ENABLE 'NON-LOCK' FEATURE AT E/125+F+4=6 (RR2)

NOTES

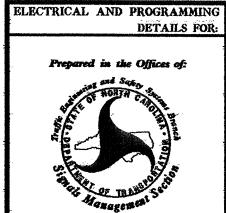
- 1. RELAY K1 IS SHOWN IN THE ENERGIZED (PREEMPT NOT ACTIVE) NORMAL OPERATION STATE.
- 2. RELAY K1 IS A DPDT WITH 120VAC COIL. POTTER & BRUMFIELD KRP11AG WITH OCTAL BASE OR APPROVED EQUIVALENT.
- 3. RELAY SSR1 IS A SPST (NORMALLY OPEN) SOLID STATE RELAY WITH AC INPUT AND AC (25 AMP) OUTPUT. CRYDOM TA1225 OR APPROVED EQUIVALENT.
- 4. AC ISOLATOR CARD SHALL ACTIVATE PREEMPTION UPON REMOVAL OF AC+ FROM THE INPUT (AS SHOWN ABOVE).
- 5. RESISTOR IS VALUED AT 2K OHM, 12 WATT. CLAROSTAT PART NO. VPRIOF-2K OR APPROVED EQUIVALENT.
- 6. RC NETWORK IS VALUED AT .1 MICROFARAD, 100 OHM.
- 7. IF REPLACEMENT MOVS ARE NEEDED, GE PART NO. V150LA20A MAY BE USED.
- 8. PREEMPTION AND BLANKOUT SIGN CONTROL BOX IS A CONTROL TECHNOLOGIES PART NO. 2299-101 OR APPROVED EQUIVALENT.
- 9. ENSURE TERMINAL TB9-12 (ON INPUT PANEL) IS CONNECTED TO AC NEUTRAL (A JUMPER MAY HAVE TO BE ADDED).

FRONT VIEW

PREEMPT ACTIVE			PB RR PREEMPT TEST		FUSE) 5 AMP	
тві	AC+	AC-	GND	REL ND	REL NC	REL COM
	1	Ž	3	4	5	6
TB2	TO TRA	RR — ACK TCH	SI	Ğu —	L si	IGN

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 05-0138 DESIGNED: JANUARY 2004 SEALED: 02-17-04 REVISED:

SIGNAL UPGRADE - FINAL DESIGN



NC 98 (HOLLOWAY STREET)

SR 1838 (JUNCTION ROAD) DIVISION 05 DURHAM COUNTY PLAN DATE: NARCH 2004 REVIEWED BY: PREPARED BY: JAMES PETERSON REVIEWED BY: REVISIONS INIT. DATE